



1. (Currently Amended) An electronic flash apparatus for a camera comprising:

a housing having an open end;

a high brightness white light LED comprising one of a UV-phosphor or a blue-phosphor LED mounted in said housing; and

a cover lens positioned over said open end of said housing for transmitting light emitted from said LED.

2. (Original) The electronic flash apparatus of claim 1, further comprising a DC power supply.

Al 3. (Original) The electronic flash apparatus of claim 2, wherein said DC power supply includes a battery cell of a type selected from the group consisting of alkaline, nickel cadmium, standard, heavy duty, lithium, and nickel metal hydride batteries.

4. (Original) The electronic flash apparatus of claim 1, further comprising a power and control circuit.

5. (Original) The electronic flash apparatus of claim 4, wherein said power and control circuit includes a switch that allows power from a DC power supply to be selectively provided to said LED.

6. (Original) The electronic flash of claim 4, wherein said power and control circuit allows said LED to be synchronized with an associated camera such that said LED is activated when a picture is taken with said camera.

RECEIVED
MAY 21 2003
JC 2800 MAIL ROOM

7. (Original) The electronic flash apparatus of claim 1, wherein said cover lens is a fresnel lens.

8. (Original) The electronic flash apparatus of claim 1, wherein said cover lens is a refractive lens.

9. (Original) The electronic flash apparatus of claim 1, wherein said LED is a white light UV-phosphor LED.

Al 10. (Original) The electronic flash apparatus of claim 8, wherein said LED is a high brightness or ultra high brightness LED.

11. (Original) The electronic flash apparatus of claim 1, wherein said cover lens is mounted such that it is flush mounted with a front surface of a body of an associated camera.

12. (Original) The electronic flash apparatus of claim 1, wherein said LED includes a transparent protective portion and an LED chip embedded in said protective portion.

13. (Original) The electronic flash apparatus of claim 1 comprising a plurality of LEDs.

14. (Original) The electronic flash apparatus of claim 1, wherein said LED has a light emission angle such that the LED does not emit light directed at said housing.

15. (Original) The electronic flash apparatus of claim 1, comprising a single LED.

16. (Currently Amended) The electronic flash apparatus of claim 1, wherein said [flahs] flash apparatus is free of a reflector.

17. (Original) The electronic flash apparatus of claim 1, further comprising a reflector mounted in said housing for directing light emitted by said LED toward said open end of said housing.

Al 18. (Currently Amended) An electronic flash apparatus for a camera comprising:

a housing having an open end;

a high brightness white light LED comprising one of a UV-phosphor or a blue phosphor LED mounted in said housing; and

a reflector mounted in said housing.

19. (Original) The electronic flash apparatus of claim 18, wherein said reflector comprises a reflective interior surface of said housing.

20. (Currently Amended) A camera comprising:

a camera body;

a housing having an open end;

[an] a high brightness white light LED comprising one of a UV-phosphor or blue phosphor LED mounted in said housing such that light emitted from said LED is directed through said open end of said housing toward an object to be photographed;

a cover lens mounted on said open end of said housing for

transmitting light emitted from said LED;
a DC power supply;
a control circuit; and,
a means for connecting said DC power supply and said control
circuit to said LED.

21. (Currently Amended) A method for producing an LED electronic
flash apparatus for a camera comprising the steps of:

providing a high brightness white light LED comprising one of the
UV-phosphor or blue phosphor LED;

providing a housing having an open end;
providing a cover lens;
providing a DC power source;
mounting said LED in said housing;
mounting said cover lens over said open end of said housing;
operatively connecting said DC power source to said LED; and,
mounting said housing, said LED and said DC power source in a
camera.

22. (Canceled)